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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	1875.3960001
First Inventor	Todd Brooks
Title	LINEAR LOW NOISE TRANSCONDUCTANCE CELL
Express Mail Label No.	0

-	APPLICATION ELEMENTS oter 600 concerning utility patent application contents.	ADDRESS TO: Commiss P.O. Box	Patent Application Idoner for Patents 1450 14 VA 22313-1450
2. Submit an Applicant See 37 Cf Specificat (preferred a Descriptiv - Cross Reference or a comp - Backgrou - Brief Sum	ion [Total Pages34] arrangement set forth below) re title of the invention ference to Related Applications at Regarding Fed sponsored R & D e to sequence listing, a table, puter program listing appendix and of the Invention amary of the Invention cription of the Drawings (if filed)	7. CD-ROM or CD-R in dupl Computer Program (Appe 8. Nucleotide and/or Amino Acid (if applicable, all necessary) a. Computer Readable b. Specification Seque i. CD-ROM or C	ilicate, large table or endix) Sequence Submission Form (CRF)
- Claim(s)	of the Disclosure	ACCOMPANYING A	PPLICATION PARTS
4. X Drawing(s 5. Oath or Declara a. X Newly b. Copy fr (for cor i. DE Sign nam 1.63 6. X Application 18. If a CONTINUI specification follow. Continuation Prior application inform For CONTINUATION 5b, is considered a	tion [Total Sheets] ation [Total Sheets] executed (original or copy) rom a prior application (37 CFR 1.63(d)) Intinuation/divisional with Box 18 completed) LETION OF INVENTOR(S) Interpretation inventor(s) Interpretation in the prior application, see 37 CFR Interpretation in the prior application, see 37 CFR Interpretation in the prior application, see 37 CFR Interpretation in the prior application in the prior application, see 37 CFR Interpretation in the prior application in the prior ap	10. 37 CFR 3.73(b) Statement (when there is an assignation of the control of prior application, from which an oath of or divisional application and is hereby tently omitted from the submitted applice or divisional application and is hereby tently of the requisite from the submitted applice or divisional application and is hereby tently omitted from the submitted applice information to control of the control	Attorney cument (if applicable) Copies of IDS Citations t d (MPEP 503) itemized) y Document(s) med) t under 35 U.S.C. 122 ust attach form PTO/SB/35 under 37CFR 1.136(a)(3) e assignee is: Broadcom Corporation and in the first sentence of the
		DENCE ADDRESS	
X Customer !	Number: 26111	OR Corre	spondence address below
Name	Sterne, Kessler, Goldstein & Fox P.L.L.C.		
Address			
City		State	Zip Code
Country	Te	elephone	Fax
Name (Print/Type)	Jeffrey T. Helvey	Registration No. (Attorney/Agent)	44,757
Signature	Bold Helmy		Date 2/13/04

This collection of information is required by 37 CFR*153(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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PTO/SB/17 (10-03)
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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

5)	1	,9	7	0	.0	0

Complet if Known			
Application Number	To Be Assigned		
Filing Date	February 13, 2004		
First Named Inventor	Todd Brooks		
Examiner Name	To Be Assigned		
Art Unit	To Be Assigned		
Attorney Docket No.	1875.3960001		

Check \(\times \) Credit card \(\times \) Money \(\times \) Other \(\times \) None Order \(\times \) Other \(\times \) Other \(\times \) None Order \(\times \) Charge any deficiencies or credit any overpayments in Deposit Account: \(\times \) Extent \(\times \) Deposit \(\times \) Deposit \(\times \) Deposit \(\times \) Color \(\times \) Color \(\times \) Sterne \(\times \) Color \(\times \) Sterne \(\times \) Color \(\times \) Sterne \(\times \) Sterne \(\times \) Color \(\times \) Sterne \(\times \) Sterne \(\times \) Color \(\times \) Sterne \(\times \) Sterne \(\times \) Color \(\times \) Sterne \(\times \) Sterne \(\times \) Color \(\times \) Color \(\times \) Sterne \(\times \) Color \(\times \) Sterne \(\times \) Color \(\times \) Sterne \(\times \)	METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)				
Charge any deficiencies or credit any overpayments in Deposit Account:		3. ADDIT	IONAL FE	ES		
Deposit Account Number 19-0036	*Charge any deficiencies or credit any overpayments in			t e e e e e e e e e e e e e e e e e e e		
Strick S	Deposit			Fee Description		
Account Name The Director is authorized to: (check all that apply)			1.	Surcharge - late filing fee or oath	Fee Paid	
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Charge fee(s) indicated below Credit any overpayments Charge any additional fee(s) or any underpayment of fee(s) 1804 920* 1804 920* 1805 1840* 180		1053 130	1053 130	Non-English specification		
Charge any additional fee(s) or any underpayment of fee(s) Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		1812 2,520	1812 2,520	For filing a request for ex parte reexamination	·	
Charge fee(s) indicated below, except for the filling fee to the above-identified deposit account.		1804 920°	1804 9201			
Test Total Claims		1805 1,840*	1805 1,840	Requesting publication of SIR after		
1. BASIC FILING FEE Large Entity Small Entity Fee		1251 110	2251 55	Extension for reply within first month		
Large Entity Small Entity Fee Fee Fee Fee Description Fee Paid 1254 1,480 2254 7,40 Extension for reply within from month 1254 1,480 2254 7,40 Extension for reply within fourth month 1254 1,480 2255 1,005 Extension for reply within fourth month 1401 330 2401 165 Notice of Appeal 1401 330 2402 165 Filing a brief in support of an appeal 1403 290 2403 145 Request for oral hearing 1451 1,510 1451 1,51		1252 420	2252 210	Extension for reply within second month		
Code (\$)	Large Entity Small Entity	1253 950	2253 475	Extension for reply within third month		
1001 770 2001 385 Utility filing fee 770 00 1401 330 2401 165 Notice of Appeal 1402 330 2402 155 Notice of Appeal 1402 330 2402 155 Notice of Appeal 1403 290 2403 145 Request for oral hearing 1403 2403		1254 1,480	2254 740	Extension for reply within fourth month		
1002 340 2002 170 Design filing fee		1255 2,010	2255 1,005	Extension for reply within fifth month		
1004 770 2004 385 Reissue filing fee	1 770.001	1401 330	2401 165	Notice of Appeal		
1451 1,510 145	1003 530 2003 265 Plant filing fee	1402 330	2402 165	Filing a brief in support of an appeal		
SUBTOTAL (1) (\$) 770.00 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from below Fee Paid 1501 1.330 2501 665 Petition to revive - unintentional 1501 1.330 2501 665 Utility issue fee (or reissue) Total Claims 51 - 20 **= 31	1004 770 2004 385 Reissue filing fee	1403 290	2403 145	Request for oral hearing		
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2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	SUBTOTAL (1) (\$) 770.00	1452 110	2452 55	Petition to revive - unavoidable		
Total Claims	170.00	1453 1,330	2453 665	Petition to revive - unintentional		
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	**or number previously paid, if greater; For Reissues, see above	*Reduced by	Basic Filing F	ee Paid SUBTOTAL (3)	40.00	

SUBMITTED BY

Name (Print/Type)

Jeffrey T. Helvey

Registration No. (Attorney/Agent)

A44,757

Telephone

(202) 371-2600

Date

7 13/44

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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Aric W. Ledford® Registered Patent Agents • Karen R. Markowicz Nancy J. Leith Helene C. Carlson Gaby L. Longsworth Matthew J. Dowd Aaron L. Schwartz Mary B. Tung Katrina Y. Pei Quach Bryan L. Skelton Robert A. Schwartzman Timothy A. Doyle Jennifer R. Mahalingappa Teresa A. Colella Jeffrey S. Lundgren

Victoria S. Rutherford Eric D. Hayes

Of Counsel Kenneth C. Bass III Evan R. Smith

*Admitted only in Maryland *Admitted only in Virginia •Practice Limited to Federal Agencies

February 13, 2004

WRITER'S DIRECT NUMBER: (202) 772-8675 INTERNET ADDRESS: JHELVEY@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Mail Stop Patent Application

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. To Be Assigned; Filed: February 13, 2004 Linear Low Noise Transconductance Cell For:

Inventors:

Brooks et al.

Our Ref:

1875.3960001

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 3. PTO Fee Transmittal (Form PTO/SB/17);
- 4. U.S. Utility Patent Application entitled:

Linear Low Noise Transconductance Cell

and naming as inventors:

Todd Brooks, Jungwoo Song and Wynstan Tong

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. A specification containing:
 - 20 pages of description prior to the claims;

Sterne, Kessler, Goldstein & Fox PLLC.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

Commissioner for Patents February 13, 2004 Page 2

- ii. 13 pages of claims (51 claims);
- iii. a one (1) page abstract;
- c. 9 sheets of drawings: (Figures 1, 1A, 2, 3, 4, 5, 6, 7 and 8); and
- d. An original executed Declaration;
- 5. Recordation Form Cover Sheet (PTO-1595);
- 6. Assignment to Broadcom Corporation, official recordation and return of which are respectfully requested;
- 7. Form PTO-2038 Credit Card Payment Form in the amount of \$1,970.00 for:

\$770.00 Filing Fee; \$558.00 Extra Claims (31); \$602.00 Extra Independent Claims (7); and \$ 40.00 Recordation Fee for Assignment; and

8. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey T. Helvey

Patent Agent for Applicants

JA Holver

Registration No. 44,757

JTH/LAG/mhd

230211

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Brooks et al.

Appl. No.: To Be Assigned

Filed: February 13, 2004

For: Linear Low Noise

Transconductance Cell

Confirmation No.: To Be Assigned

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 1875.3960001

Authorization to Treat a Reply as Incorporating an Extension of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

JU Helver

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey T. Helvey Agent for Applicants Registration No. 44,757

2/13/09

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600